

**AMENDMENTS TO THE SPECIFICATION**

Page 1, after the title insert the following:

This application is the US national phase of international application **PCT/EP2004/003270** filed **26 March 2004**, which designated the U.S. and claims priority to **IT MO2003A000089** filed **28 March 2003**, the entire content of which is hereby incorporated by reference.

Please amend the paragraph beginning at page 1 line 2, as follows:

The invention refers to an electrostimulating system comprising ~~means~~ a device for producing an electric stimulation that consists of bioactive neuromodulation of the neurovegetative system, of the striated-muscle system, of the smooth muscle and of the mixed nervous structure, particularly suitable for producing inter alia phenomena of muscular contraction and relaxation by means of emulation of the action of the nerve fibre that innerves a skeletal muscle or of the neuroceptors of the sympathetic system that interact with the smooth muscle of the vessels.

Please amend the paragraph beginning at page 3 line 10, as follows:

The invention provides a combination of: an electrostimulating apparatus for applying electrical stimuli to biological tissues; a heat exchanging ~~means~~ device, arranged to exchange heat with said tissues.

Please amend the paragraph beginning at page 3 line 14, as follows:

~~Advantageously, the~~ The apparatus and the method provided by the invention exploit the principle of achieving significant bioreaction variations.

Please amend the paragraph beginning at page 8 line 13, as follows:

In both polygraphs one notes the reproducible skin conductivity response (intermediate plot) in close temporal relationship, at about 500 msec latency, with the frequency increase phase of the stimulation. In both cases, the average conductance trend tends to fall. However, the ~~absolutely~~ original element and result of the disclosed invention consists of the close reproducibility of the responses regardless of the manner that they assume compared with the three phases of stimulation frequency.

Please amend the paragraph beginning at page 9 line 34, as follows:

The top plot simply describes the production of composite motor potentials (cMAPs) in close temporal relation with the stimuli of the sequence. The inventive and original element consists of the fact that the first cMAPs appear only in the phase of increase of the frequency of the stimulation, according to a model that is ~~absolutely~~ substantially analogous to the temporal recruitment of stimuli of the same amplitude, but placed in an increasing sequence over time (in a completely analogous manner to what occurs in the classical nerve-muscle physiological model).